

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647711

Luminaire Tested: **GALN-SA1A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

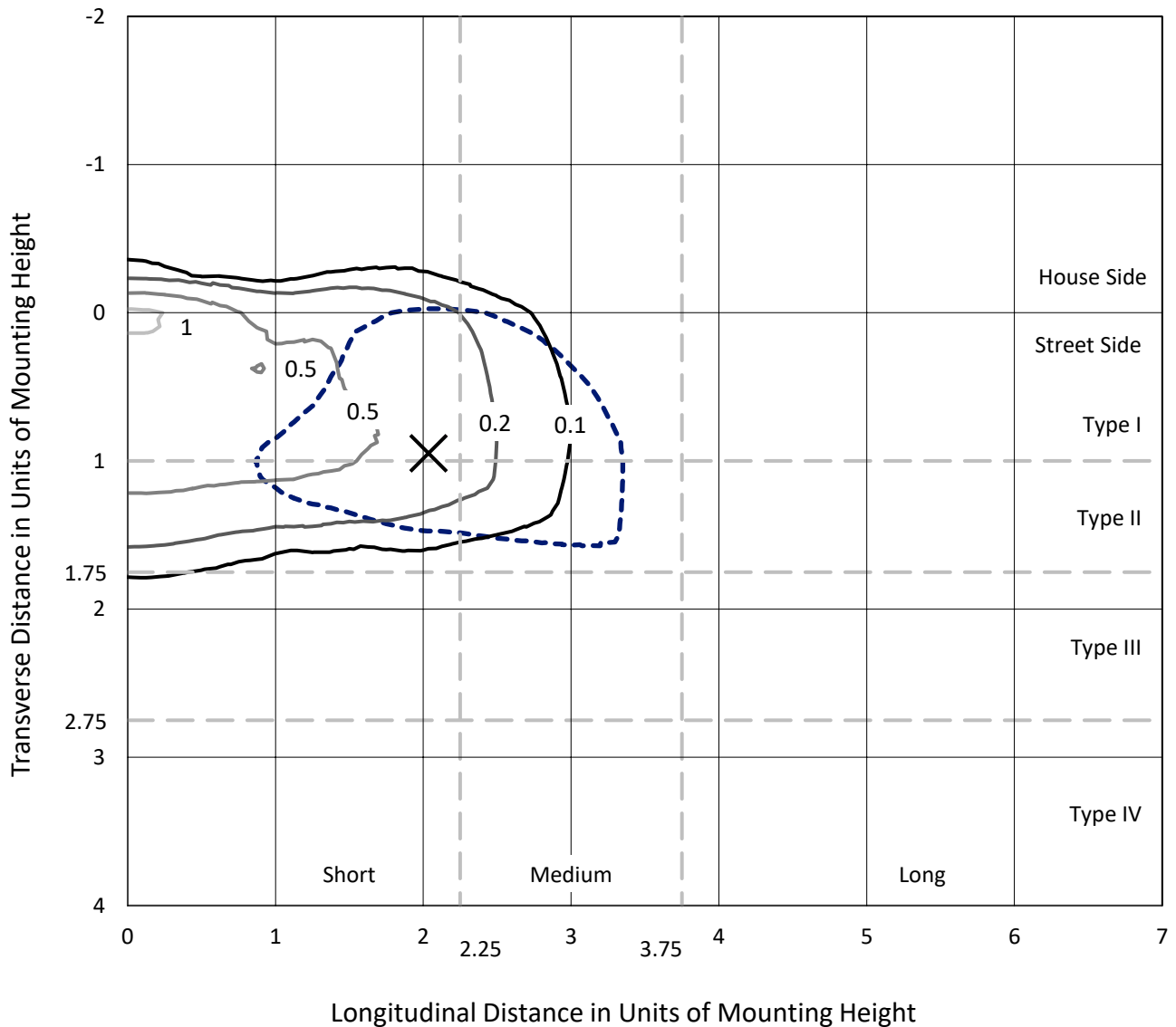
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647711
 CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

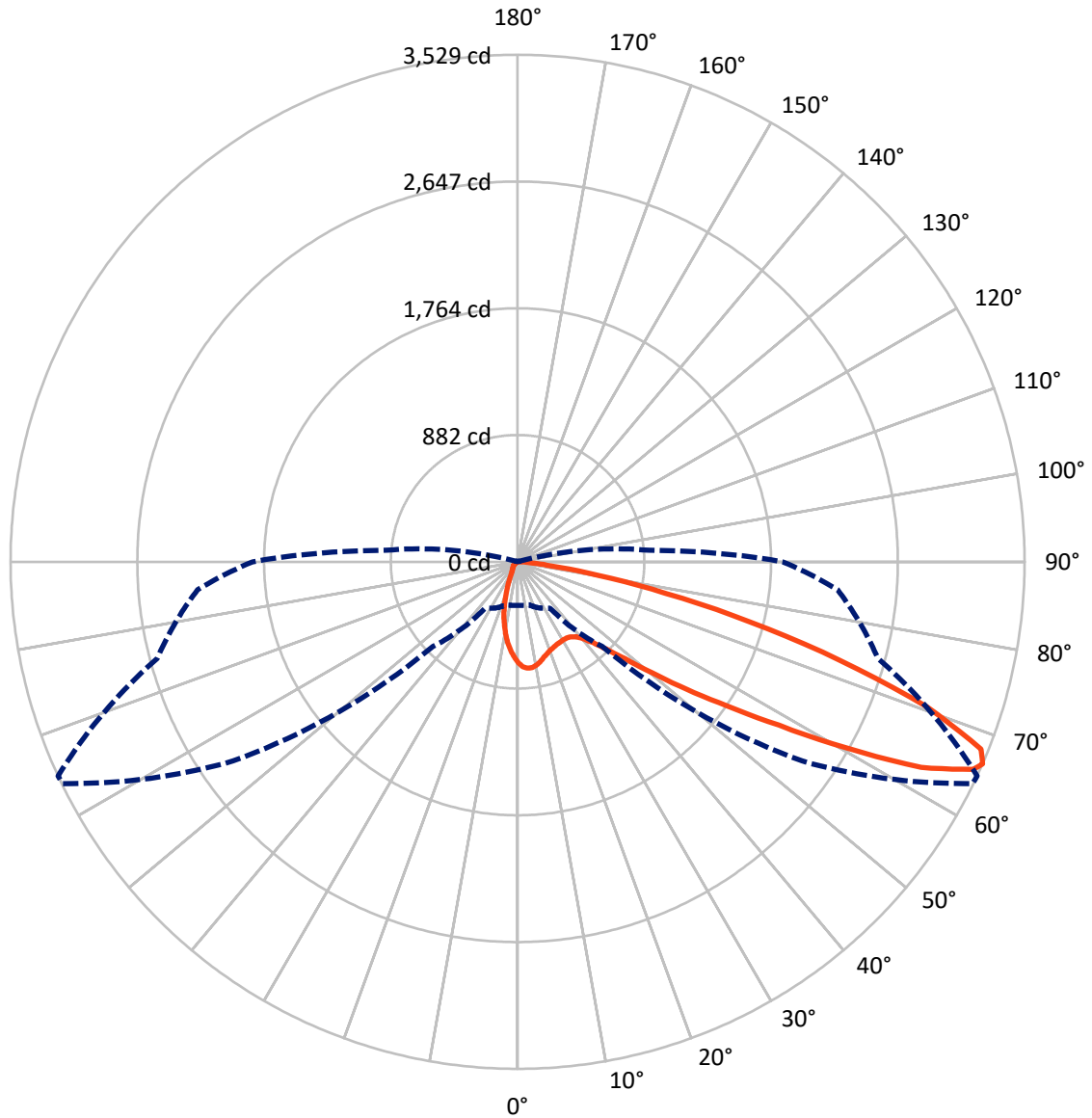
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

REPORT NUMBER: P647711
CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P647711
 CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

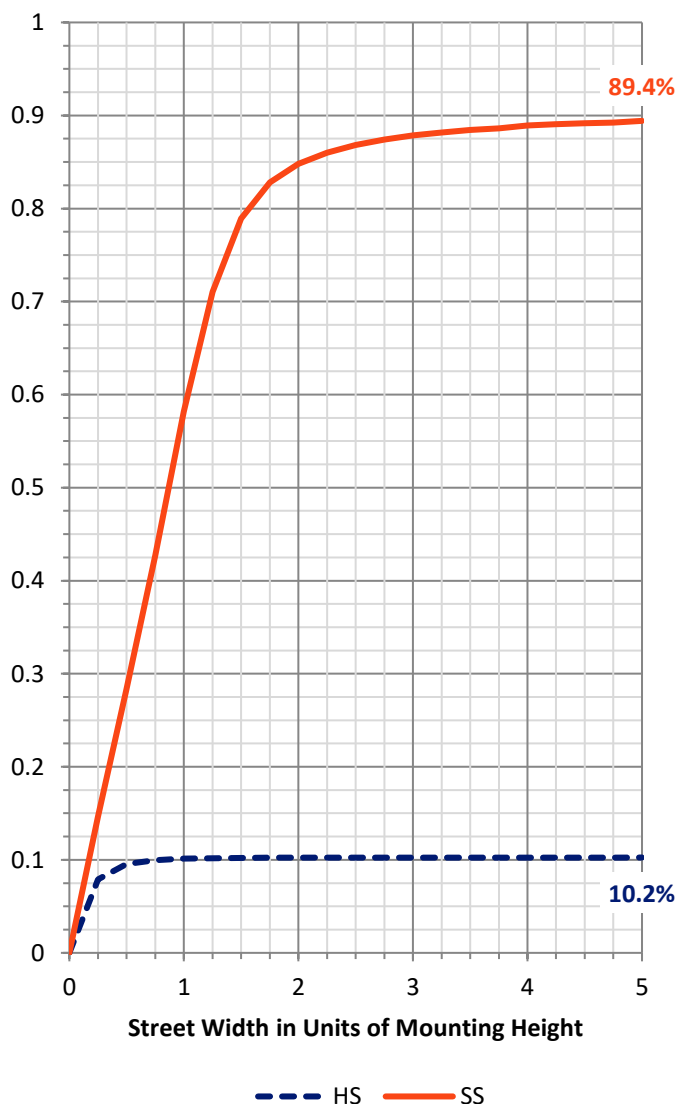
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 306.6 | 0.0 | 306.6 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 2658.6 | 0.0 | 2658.6 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 2965.2 | 0.0 | 2965.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.5 | 1.9 |
| 10°-20° | 125.3 | 4.2 |
| 20°-30° | 179.5 | 6.1 |
| 30°-40° | 262.2 | 8.8 |
| 40°-50° | 439.6 | 14.8 |
| 50°-60° | 733.6 | 24.7 |
| 60°-70° | 778.7 | 26.3 |
| 70°-80° | 352.7 | 11.9 |
| 80°-90° | 36.1 | 1.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2965.2 | 100.0 |
| 0°-180° | 2965.2 | 100.0 |

Coefficient of Utilization

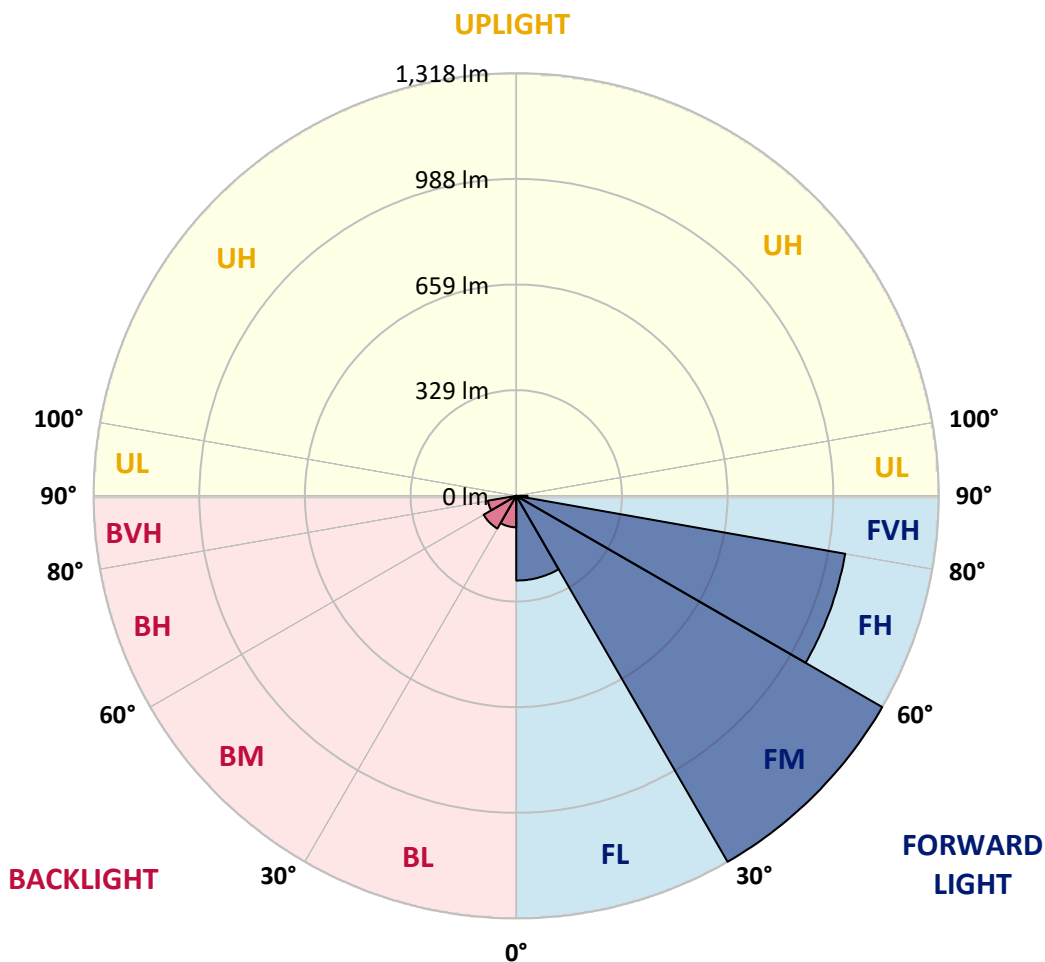


REPORT NUMBER: P647711
 CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 264.2 | 8.9 | | | |
| FM (30°-60°) | 1317.8 | 44.4 | | | |
| FH (60°-80°) | 1041.6 | 35.1 | | | G1/1800 |
| FVH (80°-90°) | 34.9 | 1.2 | | | G1/100 |
| BL (0°-30°) | 98.1 | 3.3 | B0/110 | | |
| BM (30°-60°) | 117.6 | 4.0 | B0/220 | | |
| BH (60°-80°) | 89.8 | 3.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Short





REPORT NUMBER: P647711
 CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 |
| 2.5° | 741.0 | 741.8 | 742.8 | 744.2 | 745.3 | 742.2 | 738.0 | 733.2 | 732.2 | 722.0 | 709.6 |
| 5° | 701.3 | 702.6 | 711.4 | 716.2 | 727.0 | 736.8 | 743.0 | 743.8 | 743.4 | 733.8 | 713.9 |
| 7.5° | 644.9 | 648.3 | 656.9 | 665.3 | 685.5 | 704.2 | 726.2 | 741.6 | 742.6 | 740.0 | 715.3 |
| 10° | 599.0 | 601.2 | 605.7 | 622.3 | 639.1 | 667.5 | 698.4 | 727.4 | 729.8 | 740.2 | 714.2 |
| 12.5° | 563.1 | 566.3 | 571.7 | 584.6 | 604.9 | 631.6 | 666.7 | 705.8 | 710.8 | 736.4 | 710.8 |
| 15° | 538.2 | 539.7 | 545.1 | 557.7 | 577.4 | 602.2 | 637.7 | 683.2 | 687.6 | 731.4 | 710.2 |
| 17.5° | 526.3 | 528.1 | 531.9 | 541.9 | 558.2 | 581.2 | 615.8 | 664.9 | 670.5 | 728.2 | 712.4 |
| 20° | 529.5 | 531.1 | 531.3 | 536.5 | 547.6 | 567.0 | 599.9 | 647.9 | 655.1 | 726.2 | 716.0 |
| 22.5° | 547.8 | 547.9 | 545.5 | 543.2 | 546.9 | 560.9 | 590.0 | 637.0 | 644.5 | 725.8 | 720.2 |
| 25° | 575.0 | 575.6 | 571.6 | 563.1 | 555.5 | 562.7 | 587.8 | 630.1 | 636.7 | 724.8 | 722.8 |
| 27.5° | 612.6 | 612.5 | 611.2 | 597.2 | 575.6 | 570.8 | 589.6 | 626.2 | 631.9 | 722.0 | 723.8 |
| 30° | 665.3 | 663.7 | 661.1 | 645.3 | 612.2 | 590.2 | 597.2 | 623.8 | 629.1 | 718.0 | 721.2 |
| 32.5° | 717.1 | 723.2 | 722.8 | 707.8 | 666.5 | 624.8 | 613.0 | 627.0 | 630.9 | 715.3 | 717.4 |
| 35° | 777.7 | 777.4 | 792.9 | 787.3 | 739.0 | 669.2 | 640.1 | 637.7 | 640.7 | 717.1 | 715.6 |
| 37.5° | 833.7 | 839.0 | 862.9 | 868.8 | 824.7 | 731.6 | 678.3 | 660.5 | 661.5 | 729.4 | 720.0 |
| 40° | 903.7 | 913.7 | 949.5 | 969.0 | 930.0 | 824.3 | 734.8 | 702.4 | 702.6 | 759.4 | 736.6 |
| 42.5° | 993.8 | 1009.6 | 1043.0 | 1075.5 | 1054.6 | 934.0 | 819.5 | 768.7 | 768.3 | 812.3 | 774.7 |
| 45° | 1103.3 | 1114.4 | 1152.3 | 1203.9 | 1190.6 | 1087.3 | 942.9 | 871.4 | 866.2 | 899.0 | 842.1 |
| 47.5° | 1197.8 | 1212.9 | 1251.5 | 1310.2 | 1370.2 | 1274.3 | 1090.3 | 1012.6 | 1009.2 | 1037.0 | 957.9 |
| 50° | 1239.1 | 1252.3 | 1293.0 | 1375.3 | 1520.9 | 1519.9 | 1309.8 | 1218.7 | 1212.9 | 1227.9 | 1137.0 |
| 52.5° | 1193.8 | 1206.3 | 1247.3 | 1349.8 | 1591.8 | 1819.1 | 1627.9 | 1477.2 | 1470.2 | 1451.0 | 1350.8 |
| 55° | 1038.8 | 1049.1 | 1109.7 | 1227.5 | 1564.5 | 2018.6 | 2066.0 | 1796.7 | 1769.4 | 1694.7 | 1593.0 |
| 57.5° | 827.2 | 821.9 | 859.6 | 996.4 | 1404.7 | 2085.4 | 2515.9 | 2194.6 | 2146.0 | 1905.4 | 1797.8 |
| 60° | 573.2 | 589.2 | 604.4 | 694.5 | 1056.3 | 1969.5 | 2795.6 | 2694.9 | 2630.8 | 2112.7 | 1994.1 |
| 62.5° | 421.4 | 432.0 | 442.0 | 483.7 | 664.1 | 1572.6 | 2845.1 | 3208.8 | 3151.9 | 2332.8 | 2181.4 |
| 65° | 333.2 | 334.0 | 338.1 | 379.1 | 437.6 | 1022.6 | 2607.4 | 3498.6 | 3484.0 | 2544.7 | 2257.3 |
| 66° | 303.6 | 303.8 | 310.0 | 354.1 | 392.8 | 832.7 | 2416.9 | 3520.6 | 3528.7 | 2595.6 | 2235.1 |
| 67.5° | 265.4 | 264.6 | 273.6 | 318.2 | 357.7 | 600.4 | 2076.0 | 3431.3 | 3478.8 | 2634.6 | 2155.1 |
| 70° | 205.7 | 204.7 | 215.7 | 267.0 | 329.5 | 400.6 | 1379.9 | 2946.3 | 3022.8 | 2554.7 | 1906.8 |
| 72.5° | 137.0 | 137.8 | 156.6 | 210.7 | 314.5 | 352.7 | 830.1 | 2241.3 | 2349.4 | 2109.7 | 1500.1 |
| 75° | 79.9 | 81.3 | 102.7 | 156.6 | 273.0 | 336.3 | 469.9 | 1598.2 | 1667.3 | 1456.8 | 934.5 |
| 77.5° | 41.9 | 42.4 | 57.5 | 103.4 | 209.3 | 312.3 | 313.0 | 1021.0 | 1053.4 | 708.0 | 369.9 |
| 80° | 22.2 | 21.6 | 30.9 | 62.2 | 144.0 | 274.2 | 253.9 | 540.5 | 562.0 | 210.3 | 93.5 |
| 82.5° | 8.4 | 9.2 | 16.4 | 40.9 | 85.1 | 196.8 | 218.7 | 238.9 | 231.5 | 46.3 | 39.2 |
| 85° | 1.6 | 2.0 | 7.0 | 24.2 | 42.8 | 82.3 | 161.2 | 117.1 | 108.5 | 17.5 | 22.6 |
| 87.5° | 0.2 | 0.4 | 2.0 | 5.8 | 6.2 | 27.9 | 47.7 | 32.4 | 28.0 | 6.4 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P647711
 CATALOG NUMBER: GALN-SA1A-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 | 703.1 |
| 2.5° | 703.5 | 698.1 | 680.1 | 662.3 | 644.1 | 627.7 | 616.5 | 598.2 | 593.6 | 587.0 | 583.2 |
| 5° | 702.2 | 689.5 | 654.9 | 617.1 | 581.8 | 543.7 | 514.7 | 486.6 | 471.7 | 464.0 | 461.3 |
| 7.5° | 698.1 | 678.2 | 624.1 | 564.8 | 508.3 | 451.4 | 401.9 | 364.3 | 340.1 | 323.5 | 312.3 |
| 10° | 690.1 | 662.5 | 588.2 | 506.7 | 421.4 | 346.2 | 283.6 | 235.9 | 199.0 | 187.5 | 187.8 |
| 12.5° | 681.9 | 645.1 | 548.2 | 442.2 | 336.5 | 241.7 | 175.2 | 137.6 | 120.0 | 114.2 | 113.0 |
| 15° | 674.3 | 628.4 | 508.9 | 379.8 | 250.6 | 156.6 | 113.0 | 99.8 | 94.9 | 94.0 | 93.7 |
| 17.5° | 670.3 | 613.0 | 467.1 | 308.2 | 174.8 | 106.3 | 90.5 | 86.9 | 85.5 | 84.5 | 84.1 |
| 20° | 666.9 | 599.6 | 427.0 | 241.3 | 119.6 | 87.1 | 81.1 | 77.7 | 75.3 | 74.3 | 73.7 |
| 22.5° | 664.5 | 585.8 | 385.5 | 186.8 | 91.5 | 77.3 | 71.9 | 67.5 | 64.0 | 62.9 | 62.1 |
| 25° | 660.9 | 570.6 | 343.7 | 136.6 | 77.1 | 68.7 | 62.5 | 57.3 | 52.9 | 50.7 | 50.3 |
| 27.5° | 655.7 | 553.3 | 297.8 | 101.2 | 68.9 | 61.1 | 53.5 | 47.1 | 42.7 | 40.2 | 40.5 |
| 30° | 647.3 | 535.3 | 252.0 | 80.3 | 62.2 | 53.2 | 45.1 | 38.8 | 34.6 | 32.8 | 32.7 |
| 32.5° | 637.3 | 513.5 | 209.9 | 68.9 | 56.3 | 46.3 | 37.7 | 32.3 | 29.0 | 27.6 | 27.4 |
| 35° | 627.9 | 491.5 | 167.0 | 61.9 | 50.0 | 39.9 | 31.6 | 27.0 | 24.7 | 23.4 | 23.6 |
| 37.5° | 622.6 | 471.8 | 130.2 | 56.3 | 45.1 | 34.2 | 27.2 | 23.3 | 21.1 | 20.0 | 19.8 |
| 40° | 626.1 | 455.9 | 103.5 | 51.3 | 39.5 | 29.4 | 23.4 | 20.0 | 17.9 | 16.4 | 16.4 |
| 42.5° | 642.1 | 448.8 | 83.5 | 46.4 | 34.2 | 25.4 | 20.4 | 17.2 | 14.8 | 13.4 | 13.6 |
| 45° | 690.9 | 456.3 | 69.9 | 42.0 | 29.4 | 22.0 | 17.6 | 14.3 | 12.0 | 11.0 | 10.8 |
| 47.5° | 772.0 | 484.1 | 60.4 | 37.4 | 25.2 | 18.8 | 14.8 | 11.8 | 9.6 | 8.8 | 8.6 |
| 50° | 913.8 | 541.5 | 53.5 | 32.8 | 21.5 | 16.1 | 12.2 | 9.4 | 7.6 | 6.8 | 6.8 |
| 52.5° | 1108.9 | 666.9 | 48.5 | 27.6 | 18.0 | 13.6 | 10.0 | 7.6 | 6.0 | 5.4 | 5.2 |
| 55° | 1312.8 | 799.1 | 45.9 | 23.3 | 15.0 | 11.2 | 8.0 | 6.0 | 4.6 | 4.0 | 3.8 |
| 57.5° | 1508.8 | 902.8 | 42.8 | 18.8 | 12.0 | 8.6 | 6.2 | 4.6 | 3.2 | 2.8 | 2.6 |
| 60° | 1696.9 | 986.7 | 36.5 | 15.0 | 9.4 | 6.2 | 4.6 | 3.2 | 2.2 | 1.8 | 1.8 |
| 62.5° | 1865.2 | 1035.6 | 28.7 | 12.0 | 7.2 | 4.4 | 3.0 | 2.4 | 1.6 | 1.2 | 1.2 |
| 65° | 1884.8 | 972.1 | 21.6 | 9.2 | 5.2 | 2.8 | 1.8 | 1.8 | 1.2 | 0.8 | 0.8 |
| 66° | 1845.3 | 918.2 | 19.0 | 8.4 | 4.6 | 2.4 | 1.6 | 1.4 | 1.0 | 0.6 | 0.6 |
| 67.5° | 1757.2 | 826.3 | 16.4 | 7.2 | 3.8 | 1.8 | 1.2 | 1.2 | 0.8 | 0.4 | 0.4 |
| 70° | 1518.3 | 674.9 | 13.0 | 5.4 | 2.8 | 1.4 | 0.8 | 0.8 | 0.6 | 0.4 | 0.4 |
| 72.5° | 1157.2 | 503.9 | 10.6 | 4.0 | 2.0 | 1.0 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 |
| 75° | 698.0 | 271.4 | 8.2 | 3.0 | 1.8 | 0.8 | 0.4 | 0.6 | 0.8 | 0.6 | 0.4 |
| 77.5° | 257.1 | 92.3 | 6.4 | 2.4 | 1.4 | 0.8 | 0.4 | 0.4 | 0.8 | 0.6 | 0.6 |
| 80° | 63.1 | 24.0 | 4.6 | 2.0 | 1.4 | 0.8 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 82.5° | 29.2 | 10.2 | 3.2 | 1.8 | 1.4 | 0.8 | 0.4 | 0.4 | 0.6 | 0.8 | 0.8 |
| 85° | 16.8 | 4.8 | 2.6 | 2.0 | 1.4 | 0.8 | 0.4 | 0.4 | 0.6 | 0.8 | 0.8 |
| 87.5° | 6.8 | 2.4 | 2.4 | 2.0 | 1.6 | 1.0 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)